

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/561, 343  
Source: IFWP  
Date Processed by STIC: 12/29/2005

# ***ENTERED***

IFW<sup>p</sup>

## RAW SEQUENCE LISTING

DATE: 12/29/2005

PATENT APPLICATION: US/10/561,343

TIME: 14:59:54

Input Set : A:\05552.1464 Sequence Listing.txt

Output Set: N:\CRF4\12292005\J561343.raw

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3 <110> APPLICANT: Dade Behring Marburg GmbH
5 <120> TITLE OF INVENTION: Novel surface protein (HBsAg) variant of the hepatitis B
Virus
7 <130> FILE REFERENCE: MA 1251
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/561,343
C--> 9 <141> CURRENT FILING DATE: 2005-12-20
9 <150> PRIOR APPLICATION NUMBER: DE 10328139.8
10 <151> PRIOR FILING DATE: 2003-06-20
12 <160> NUMBER OF SEQ ID NOS: 34
14 <170> SOFTWARE: PatentIn version 3.2
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 462
18 <212> TYPE: DNA
19 <213> ORGANISM: Hepatitis B virus
21 <400> SEQUENCE: 1
22 gggggaacta ccgtgtgtct tggccaaaat tgcagtgccc caacctccaa tcactcacca      60
24 acctcctgtc ctccaacttg tcctgggttat cgctggatgt gtctgcggcg ttttatcatc      120
26 ttctcttca tcctgtgtct atgcctcatc ttcttggttg ctcttctgga ctatcaaggt      180
28 atattgcccg tttgtcctct aattccagga tctgcaatca acaacagggg acaatgcaaa      240
30 acctgcacga ctactgctca cggaacctct atgtatccct actgttgctg taccaaacct      300
32 tcggacggaa attgcacctg tattcccatc ccatcatcct gggctttcgg aaaattccta      360
34 tgggagtggg cctcagcccg tttctcctgg ctcagtttac tagttccctt tgttcagtgg      420
36 ttcgtagggc tttccccac tgtttggtt tcagttatat gg                        462
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 84
41 <212> TYPE: DNA
42 <213> ORGANISM: Hepatitis B virus
44 <400> SEQUENCE: 2
45 ttcttggttg ctcttctgga ctatcaaggt atattgcccg tttgtcctct aattccagga      60
47 tctgcaatca acaacagggg acaa                        84
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 144
52 <212> TYPE: DNA
53 <213> ORGANISM: Hepatitis B virus
55 <400> SEQUENCE: 3
56 ttcttggttg ctcttctgga ctatcaaggt atattgcccg tttgtcctct aattccagga      60
58 tctgcaatca acaacagggg acaatgcaaa acctgcacga ctactgctca cggaacctct      120
60 atgtatccct actgttgctg tacc                        144
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 66
65 <212> TYPE: DNA
66 <213> ORGANISM: Hepatitis B virus
68 <400> SEQUENCE: 4
69 caaggtatat tgcccgtttg tcctctaatt ccaggatctg caatcaacaa caggggacaa      60

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71 tgcaaa 66
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 120
76 <212> TYPE: DNA
77 <213> ORGANISM: Hepatitis B virus
79 <400> SEQUENCE: 5
80 caagggtatat tgcccgtttg tcctctaatt ccaggatctg caatcaacaa caggggacaa 60
82 tgcaaaacct gcacgactac tgctcacgga acctctatgt atccctactg ttgctgtacc 120
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 15
87 <212> TYPE: DNA
88 <213> ORGANISM: Hepatitis B virus
90 <400> SEQUENCE: 6
91 gcaatcaaca acagg 15
94 <210> SEQ ID NO: 7
95 <211> LENGTH: 21
96 <212> TYPE: DNA
97 <213> ORGANISM: Hepatitis B virus
99 <400> SEQUENCE: 7
100 gcaatcaaca acaggggaca a 21
103 <210> SEQ ID NO: 8
104 <211> LENGTH: 27
105 <212> TYPE: DNA
106 <213> ORGANISM: Hepatitis B virus
108 <400> SEQUENCE: 8
109 gcaatcaaca acaggggaca atgcaaa 27
112 <210> SEQ ID NO: 9
113 <211> LENGTH: 48
114 <212> TYPE: DNA
115 <213> ORGANISM: Hepatitis B virus
117 <400> SEQUENCE: 9
118 gcaatcaaca acaggggaca atgcaaaacc tgcacgacta ctgctcac 48
121 <210> SEQ ID NO: 10
122 <211> LENGTH: 81
123 <212> TYPE: DNA
124 <213> ORGANISM: Hepatitis B virus
126 <400> SEQUENCE: 10
127 gcaatcaaca acaggggaca atgcaaaacc tgcacgacta ctgctcacgg aacctctatg 60
129 tatccctact gttgctgtac c 81
132 <210> SEQ ID NO: 11
133 <211> LENGTH: 60
134 <212> TYPE: DNA
135 <213> ORGANISM: Hepatitis B virus
137 <400> SEQUENCE: 11
138 tgcaaaacct gcacgactac tgctcacgga acctctatgt atccctactg ttgctgtacc 60
141 <210> SEQ ID NO: 12
142 <211> LENGTH: 154
143 <212> TYPE: PRT
144 <213> ORGANISM: Hepatitis B virus

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146 <400> SEQUENCE: 12
148 Gly Gly Thr Thr Val Cys Leu Gly Gln Asn Ser Gln Ser Pro Thr Ser
149 1 5 10 15
152 Asn His Ser Pro Thr Ser Cys Pro Pro Thr Cys Pro Gly Tyr Arg Trp
153 20 25 30
156 Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys
157 35 40 45
160 Leu Ile Phe Leu Leu Ala Leu Leu Asp Tyr Gln Gly Ile Leu Pro Val
161 50 55 60
164 Cys Pro Leu Ile Pro Gly Ser Ala Ile Asn Asn Arg Gly Gln Cys Lys
165 65 70 75 80
168 Thr Cys Thr Thr Thr Ala His Gly Thr Ser Met Tyr Pro Tyr Cys Cys
169 85 90 95
172 Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser
173 100 105 110
176 Ser Trp Ala Phe Gly Lys Phe Leu Trp Glu Trp Ala Ser Ala Arg Phe
177 115 120 125
180 Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu
181 130 135 140
184 Ser Pro Thr Val Trp Leu Ser Val Ile Trp
185 145 150
188 <210> SEQ ID NO: 13
189 <211> LENGTH: 28
190 <212> TYPE: PRT
191 <213> ORGANISM: Hepatitis B virus
193 <400> SEQUENCE: 13
195 Phe Leu Leu Ala Leu Leu Asp Tyr Gln Gly Ile Leu Pro Val Cys Pro
196 1 5 10 15
199 Leu Ile Pro Gly Ser Ala Ile Asn Asn Arg Gly Gln
200 20 25
203 <210> SEQ ID NO: 14
204 <211> LENGTH: 48
205 <212> TYPE: PRT
206 <213> ORGANISM: Hepatitis B virus
208 <400> SEQUENCE: 14
210 Phe Leu Leu Ala Leu Leu Asp Tyr Gln Gly Ile Leu Pro Val Cys Pro
211 1 5 10 15
214 Leu Ile Pro Gly Ser Ala Ile Asn Asn Arg Gly Gln Cys Lys Thr Cys
215 20 25 30
218 Thr Thr Thr Ala His Gly Thr Ser Met Tyr Pro Tyr Cys Cys Cys Thr
219 35 40 45
222 <210> SEQ ID NO: 15
223 <211> LENGTH: 22
224 <212> TYPE: PRT
225 <213> ORGANISM: Hepatitis B virus
227 <400> SEQUENCE: 15
229 Gln Gly Ile Leu Pro Val Cys Pro Leu Ile Pro Gly Ser Ala Ile Asn
230 1 5 10 15
233 Asn Arg Gly Gln Cys Lys

```

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234          20
237 <210> SEQ ID NO: 16
238 <211> LENGTH: 40
239 <212> TYPE: PRT
240 <213> ORGANISM: Hepatitis B virus
242 <400> SEQUENCE: 16
244 Gln Gly Ile Leu Pro Val Cys Pro Leu Ile Pro Gly Ser Ala Ile Asn
245 1          5          10          15
248 Asn Arg Gly Gln Cys Lys Thr Cys Thr Thr Thr Ala His Gly Thr Ser
249          20          25          30
252 Met Tyr Pro Tyr Cys Cys Cys Thr
253          35          40
256 <210> SEQ ID NO: 17
257 <211> LENGTH: 5
258 <212> TYPE: PRT
259 <213> ORGANISM: Hepatitis B virus
261 <400> SEQUENCE: 17
263 Ala Ile Asn Asn Arg
264 1          5
267 <210> SEQ ID NO: 18
268 <211> LENGTH: 5
269 <212> TYPE: PRT
270 <213> ORGANISM: Hepatitis B virus
272 <400> SEQUENCE: 18
274 Ile Pro Gly Ser Ala
275 1          5
278 <210> SEQ ID NO: 19
279 <211> LENGTH: 5
280 <212> TYPE: PRT
281 <213> ORGANISM: Hepatitis B virus
283 <400> SEQUENCE: 19
285 Pro Gly Ser Ala Ile
286 1          5
289 <210> SEQ ID NO: 20
290 <211> LENGTH: 5
291 <212> TYPE: PRT
292 <213> ORGANISM: Hepatitis B virus
294 <400> SEQUENCE: 20
296 Gly Ser Ala Ile Asn
297 1          5
300 <210> SEQ ID NO: 21
301 <211> LENGTH: 5
302 <212> TYPE: PRT
303 <213> ORGANISM: Hepatitis B virus
305 <400> SEQUENCE: 21
307 Ser Ala Ile Asn Asn
308 1          5
311 <210> SEQ ID NO: 22
312 <211> LENGTH: 5

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313 <212> TYPE: PRT
314 <213> ORGANISM: Hepatitis B virus
316 <400> SEQUENCE: 22
318 Ile Asn Asn Arg Gly
319 1 5
322 <210> SEQ ID NO: 23
323 <211> LENGTH: 5
324 <212> TYPE: PRT
325 <213> ORGANISM: Hepatitis B virus
327 <400> SEQUENCE: 23
329 Asn Asn Arg Gly Gln
330 1 5
333 <210> SEQ ID NO: 24
334 <211> LENGTH: 5
335 <212> TYPE: PRT
336 <213> ORGANISM: Hepatitis B virus
338 <400> SEQUENCE: 24
340 Asn Arg Gly Gln Cys
341 1 5
344 <210> SEQ ID NO: 25
345 <211> LENGTH: 5
346 <212> TYPE: PRT
347 <213> ORGANISM: Hepatitis B virus
349 <400> SEQUENCE: 25
351 Arg Gly Gln Cys Lys
352 1 5
355 <210> SEQ ID NO: 26
356 <211> LENGTH: 7
357 <212> TYPE: PRT
358 <213> ORGANISM: Hepatitis B virus
360 <400> SEQUENCE: 26
362 Ala Ile Asn Asn Arg Gly Gln
363 1 5
366 <210> SEQ ID NO: 27
367 <211> LENGTH: 9
368 <212> TYPE: PRT
369 <213> ORGANISM: Hepatitis B virus
371 <400> SEQUENCE: 27
373 Ala Ile Asn Asn Arg Gly Gln Cys Lys
374 1 5
377 <210> SEQ ID NO: 28
378 <211> LENGTH: 16
379 <212> TYPE: PRT
380 <213> ORGANISM: Hepatitis B virus
382 <400> SEQUENCE: 28
384 Ala Ile Asn Asn Arg Gly Gln Cys Lys Thr Cys Thr Thr Thr Ala His
385 1 5 10 15
388 <210> SEQ ID NO: 29
389 <211> LENGTH: 27

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**VERIFICATION SUMMARY**

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Input Set : A:\05552.1464 Sequence Listing.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date